## **CLAIMS:**

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- 1. A method for preparing a dispersion of a hydrophobic pharmaceutically active agent in an aqueous phase comprising:
  - a) combining said agent and aqueous phase to form a mixture; and
  - b) before, during or after said combining, removing dissolved gases from one or both of the active agent and aqueous phase.
- 2. The method according to claim 1 comprising:
  - a) combining said agent and aqueous phase to form a mixture; and
  - b) removing dissolved gasses from said mixture.
- 3. The method according to claim 1 or 2 further comprising:
  - c) agitating or shaking the degassed mixture to form a dispersion.
- 4. The method according to claim 1 or 2 wherein said dispersion is substantially free of stabilizers, surfactants or dispersants.
- 5. The method according to claim 1 or 2 wherein said agent is an oil or liquid.
- 6. The method according to claim 5 wherein said agent is a perfluorocarbon.
- 7. The method according to claim 1 or 2 wherein the said agent is a finely divided solid.
- 25 8. The method according to claim 1 or 2 wherein said agent is first dissolved or dispersed in a pharmaceutically acceptable hydrophobic carrier oil or liquid.
  - 9. The method according to claim 8 wherein the carrier oil or liquid is soybean oil or a perfluorocarbon.

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- 10. The method according to claim 1 or 2 wherein at least 80-99.99% of dissolved gases are removed.
- 5 11. A dispersion of a hydrophobic pharmaceutically active agent in an aqueous phase, substantially free of dissolved gases.
  - 12. A dispersion of a hydrophobic pharmaceutically active agent in an aqueous phase, substantially free of stabilizers, surfactants and dispersants.
- 13. A dispersion of droplets of a liquid or oily hydrophobic pharmaceutically active agent, or a hydrophobic pharmaceutically active agent dissolved or dispersed in a carrier oil or liquid, in an aqueous phase wherein the droplets have an interfacial tension of about 15-55 mJm<sup>-2</sup>.
- 15 14. The dispersion according to claim 13 wherein the droplets have an interfacial tension of about 30-50 mJm<sup>-2</sup>.
  - 15. The dispersion according to any one of claims 11-13 wherein said agent is a finely divided solid.
  - 16. The dispersion according to any one of claims 11-13 wherein said agent is an oil or liquid.
    - 17. The dispersion according to claim 16 wherein the agent is a perfluorocarbon.
    - 18. The dispersion according to any one of claims 11-13 wherein the agent is dissolved or dispersed in a pharmaceutically acceptable hydrophobic carrier oil or liquid.

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- 19. The dispersion according to claim 18 wherein the carrier oil or liquid is soybean oil or a perfluorocarbon.
- 20. An injectable drug delivery system comprising a dispersion according to any one of claims 11, 12 or 13.
  - 21. An inhalable drug delivery system comprising a dispersion according to any one of claims 11, 12 or 13.
- 10 22. A method of delivering a hydrophobic pharmaceutically active agent to a patient in need thereof comprising administering to said patient a dispersion according to any one of claims 11, 12 or 13.
  - 23. The method according to claim 22 wherein the dispersion is administered via injection.
  - 24. The method according to claim 22 wherein the dispersion is administered via an aerosol.